

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 06-188008

(43)Date of publication of application : 08.07.1994

(51)Int.Cl.

H01M 8/02

H01M 8/04

H01M 8/06

(21)Application number : 05-054274

(71)Applicant : TOSHIBA CORP

(22)Date of filing : 15.03.1993

(72)Inventor : YAMADA SHUJI
KANDA MOTOI
YAMAMOTO MASAO
SUZUKI NOBUKAZU
KANAZAWA RYOKO
MOTOMIYA AKINORI
KONDO TAKESHI
UCHIDA TAKESHI
HASHIMOTO KOJI
NIKI HIROICHI
SASAKI KUNIIHIKO
TSURUTA SHINJI

(30)Priority

Priority number : 04243218 Priority date : 11.09.1992 Priority country : JP

04279075 19.10.1992

04 80009 01.04.1992

JP

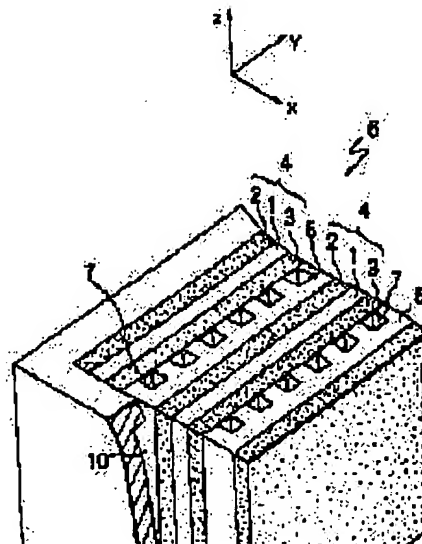
JP

(54) FUEL BATTERY

(57)Abstract:

PURPOSE: To simplify a feeding system while simplifying the structure, to maintain high efficiency, and to achieve reduction in the size by feeding liquid fuel perpendicularly to the stream of oxidant gas when the liquid fuel and the oxidant gas are fed to a stack, in which a plurality of electromotive parts having electrolyte plates are piled up.

CONSTITUTION: An electromotive part 4 comprises a fuel electrode 2 which is an anode, an oxidant electrode 3 which is a cathode, and an electrolyte plate 1 sandwiched between them. The fuel electrode 2 and the oxidant electrode 3 are formed of conductive porous body so that a gas such as the fuel and the oxidant as well as electrons can be channeled therein. A plurality of the electromotive parts 4 are formed through a separator 5, to form a stack 6, which become a



battery main body. The separator 5 is also formed of conductive material so that it can function as a collecting plate for passing electrons thus generated. In this structure, the oxidant gas is channeled from the lower part to the upper part of the stock 6, and the stream is smoothed by using the heat generated by battery reaction, A plurality of feeding grooves 7 for flowing the gas vertically are provided on the surface of the separator 5 abutting on the oxidant electrode 3.

LEGAL STATUS

[Date of request for examination] 07.10.1999

[Date of sending the examiner's decision of rejection] 03.09.2002

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office